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U.S. Department of Agriculture

RELATION OF CA TO LATER GROW



HEIGHT

1st 5 years

6th year

7th "

8th "

9th "

10th "

Total Height

Diameter at
Ground Line

Diameter at
Breast Height

RELATION OF CARE IN PLANTING TO LATER GROWTH OF THE TREE



HEIGHT GROWTH

	Poorly Planted Tree	Properly Planted Tree
1st 5 years	.4 feet	1.9 feet
6th year	.3 "	1.0 "
7th "	.3 "	1.0 "
8th "	.5 "	1.3 "
9th "	.8 "	1.6 "
10th "	.7 "	1.3 "
Total Height	3.0 feet	8.1 feet
Diameter at Ground Line	1.2 inches	4.3 inches
Diameter at Breast Height	----	1.7 inches



THIS TREE WAS PROPERLY PLANTED

UNITED STATES DEPARTMENT OF AGRICULTURE
FOREST SERVICE
ALLEGHENY FOREST EXPERIMENT STATION



THE SMALL TREE IN THE FOREGROUND
WAS IMPROPERLY PLANTED



THE ROOTS OF THIS TREE WERE FOUND TO BE WELL DISTRIBUTED, WITH A SINGLE
TAP-ROOT EXTENDING DOWNWARD.



AT THE TIME THIS TREE WAS PLANTED THE TWO MAIN ROOTS WERE BENT SHARPLY
TO THE SIDE, AND WERE NOT PROPERLY SPREAD APART. THIS WAS PROBABLY DUE
TO PLANTING IN TOO SHALLOW A HOLE.

THESE TREES WERE PLANTED AS 3-0 TRANSPLANTS IN MAY, 1929, NEAR MARIENVILLE, PENNSYLVANIA. THE CENTER-HOLE METHOD WAS USED. IN THE FALL OF 1938 THE ROOTS WERE
EXCAVATED IN ORDER TO DETERMINE, IF POSSIBLE, THE REASON FOR THE DIFFERENCE IN HEIGHT GROWTH OF THE TWO TREES.

BY PROPERLY SPREADING THE ROOTS AT THE TIME OF PLANTING, THE AMOUNT OF "FEEDING AREA" AVAILABLE TO THE TREE IS INCREASED, AND THE TREE IS ABLE TO ANCHOR ITSELF
MORE FIRMLY IN THE GROUND.

